**Carbon Cycle Collaboration Collage Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Directions:**

**Step 1: Create a Collage-**With a partner trace the cyclic life of a carbon atom as carbon dioxide (CO2) exhaled during respiration and converted to glucose during photosynthesis. Consider other pathways the carbon atom may take in the atmosphere, water, biological life, geological life, and society. Use pictures in the form of drawings/magazine clippings and words to complete the most creative version of this cycle. **Your pictures must be connected with arrows and the arrows need to have a written explanation.**

**HOMEWORK: DUE Friday February 8th**

**Step 2 : Read and Respond-**Once you have finished your collage and a teacher has approved it, read about the carbon cycle and answer the following questions.

1. What is the difference between the "slow" and "fast" carbon cycle?
2. What role has carbon played with respect to climate in the past?
3. Describe three carbon **sources** (or processes that release carbon into the atmosphere) that are surprising to you.
4. Describe three carbon **sinks** (or places where carbon in stored preventing it from entering the atmosphere) that are surprising to you.

**AT A FUTURE DATE…**

**Step 3: Reflect and Expand-** Now that you’ve read about the carbon cycle, Add at least three more details to your carbon collage. Mark them with a star (\*).